

GUIDE TO BETTER SERVICE

CANADIAN EDITION



THE GARTH COMPANY

50 Craig Street, West

MONTREAL

THE LUNKENHEIMER CO.

"QUALITY"

CINCINNATI, OHIO, U. S. A.

NEW YORK CHICAGO BOSTON LONDON
EXPORT DEPT. 129-135 LAFAYETTE ST., NEW YORK



30. C. 2

LUNKENHEIMER STANDARD VALVES

SMALL VALVES, SCREW ENDS

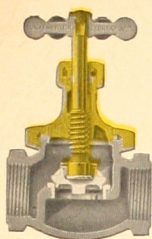


Fig. 1021—Globe
Fig. 1022—Angle
"Fer-renewo"—Union Bonnet
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
Sizes Made, ¼ to 2 inches
Sizes Registered,
¾ to 2 inches
Registration No. 0136-5234

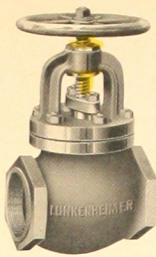


Fig. 1021—Globe
Fig. 1022—Angle
"Fer-renewo"
Outside Screw and Yoke
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
†2½ to 4 inches
Registration No.
0137-5234—Globe
Registration No.
0138-5234—Angle



Fig. 898—Horizontal
Fig. 899—Angle
"Fer-renewo"
Lift Check
150 Pounds—450° F.
Renewable Nickel Seat
and Disc
¼ to 2 inches



Fig. 600—Gate
"Clip"
100 Pounds—450° F.
Rising Bronze Stem
½ to 3 inches



Fig. 427—Gate
Bronze—"Double Disc"
150 Pounds—500° F.
Rising Bronze Stem
†Sizes Made, ¼ to 3 inches
Sizes Registered,
*¼ to 2½ inches
Registration No. 0150-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED 125 POUNDS WORKING STEAM PRESSURE

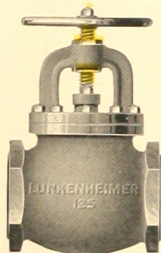


Fig. 1120—Globe
Fig. 1121—Angle
125 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. 0137-5234—Globe
Registration No. 0138-5234—Angle

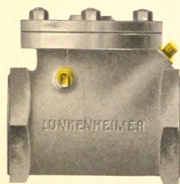


Fig. 228—Swing Check
125 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. 0149-5234

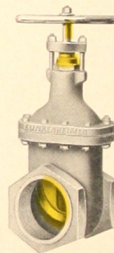


Fig. 1427—Gate
125 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 2 to 6 inches
*Sizes Registered, 2 and 2½ inches
Registration No. 0438-5234



Fig. 1429—Gate
125 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†2 to 6 inches
Registration No. 0439-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED 125 POUNDS WORKING STEAM PRESSURE

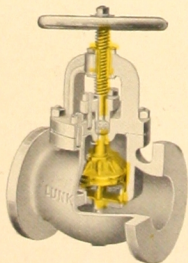


Fig. 1123—Globe
Fig. 1124—Angle
125 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 12 inches
Registration No. 0137-5234—Globe
Registration No. 0138-5234—Angle

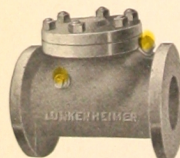


Fig. 933—Swing Check
125 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. 0149-5234

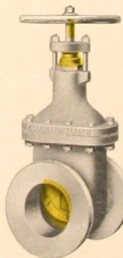


Fig. 1428—Gate
125 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
Sizes Made, 2 to 12 inches
*Sizes Registered, 2 and 2½ inches
Registration No. 0438-5234

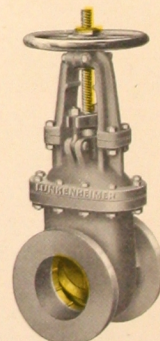


Fig. 1430—Gate
125 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
2 to 24 inches
Registration No. 0439-5234

STANDARD FACE TO FACE DIMENSIONS

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.
†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4½" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER HEAVY VALVES

SMALL VALVES, SCREW ENDS, BRONZE

200 POUNDS WORKING STEAM PRESSURE

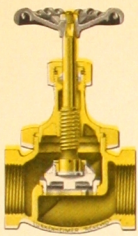


Fig. 73—Globe
Fig. 72—Angle
Bronze—"Renewo"
200 Pounds—500° F.
Renewable Nickel Seat
and Disc
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¼ to 2½ inches
Registration No.
‡0128-5234—Globe
Registration No.
‡0129-5234—Angle

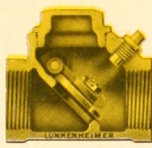


Fig. 554—Swing Check
Bronze—"Regrinding"
200 Pounds—500° F.
Renewable Bronze Disc
†¼ to 3 inches
Registration No.
‡0147-5234

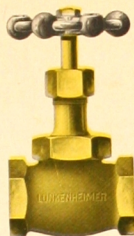


Fig. 407—Globe
Fig. 408—Angle
Bronze—"Regrinding"
200 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ⅜ to 4 in.
Sizes Registered,
*⅜ to 2½ inches
Registration No.
‡0124-5234—Globe
Registration No.
‡0125-5234—Angle



Fig. 414—Horizontal
Fig. 415—Angle
Bronze—"Regrinding"
Lift Check
200 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ⅜ to 4 in.
Sizes Registered,
*⅜ to 3 inches
Registration No.
‡0143-5234—Horizontal
Registration No.
‡0144-5234—Angle



Fig. 768—Gate
Bronze—"Wedge Disc"
200 Pounds—500° F.
Inside Screw
Stationary Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¾ to 2½ inches
Registration No.
‡0151-5234



Fig. 831—Gate
Bronze—"Wedge Disc"
200 Pounds—500° F.
Outside Screw and Yoke
Rising Stem
Renewable Bronze Seats
and Disc 1 inch and
larger
†¾ to 3 inches
Registration No.
‡0152-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED

175 POUNDS WORKING STEAM PRESSURE

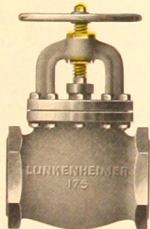


Fig. 1126—Globe
175 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. ‡0139-5234

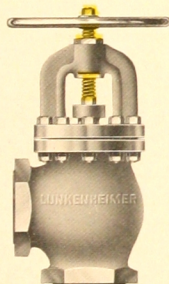


Fig. 1127—Angle
175 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 6 inches
Registration No. ‡0140-5234

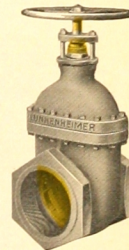


Fig. 602—Gate
175 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 2 to 6 inches
*Sizes Registered, 2 and 2½ inches
Registration No. ‡0155-5234

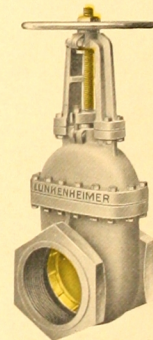


Fig. 642—Gate
175 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†2 to 6 inches
Registration No. ‡0156-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED

175 POUNDS WORKING STEAM PRESSURE

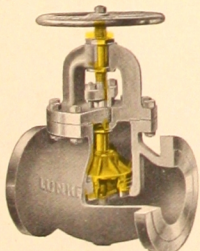


Fig. 1129—Globe
175 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. ‡0139-5234

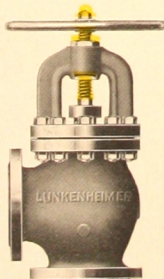


Fig. 1130—Angle
175 Pounds—450° F.
Renewable Bronze Seat and Disc
2 to 8 inches
Registration No. ‡0140-5234

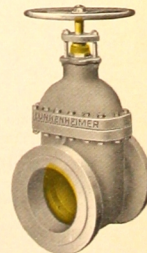


Fig. 603—Gate
175 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
Sizes Made, 2 to 16 inches
*Sizes Registered, 2 and 2½ inches
Registration No. ‡0155-5234

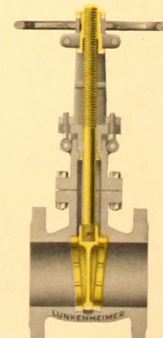


Fig. 643—Gate
175 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
2 to 16 inches
Registration No. ‡0156-5234

Diameters and thickness of Flanges and Drilling Templates on above 175 Pound Flanged Valves are the same dimensions as the 250 Pound Extra Heavy American Standard

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.

†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4½" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER EXTRA HEAVY VALVES

SMALL VALVES, SCREW ENDS, BRONZE

300 POUNDS WORKING STEAM PRESSURE

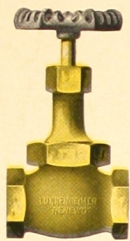


Fig. 16—Globe
Fig. 17—Angle
Bronze—"Renewo"
300 Pounds—500° F.
Renewable Nickel Seat
and Disc
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¼ to 2½ inches
Registration No.
‡0130-5234—Globe
Registration No.
‡0131-5234—Angle



Fig. 624—Swing Check
Bronze—"Regrinding"
300 Pounds—500° F.
Renewable Bronze Disc
†¼ to 3 inches
Registration No.
‡0148-5234

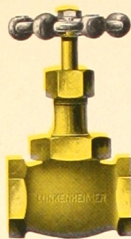


Fig. 409—Globe
Fig. 557—Angle
Bronze—"Regrinding"
300 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ¼ to 4 in.
Sizes Registered,
*¼ to 2½ inches
Registration No.
‡0126-5234—Globe
Registration No.
‡0127-5234—Angle



Fig. 413—Horizontal
Fig. 621—Angle
Bronze—"Regrinding"
Lift Check
300 Pounds—500° F.
Renewable Bronze Disc
†Sizes Made, ¼ to 4 in.
Sizes Registered,
*¼ to 3 inches
Registration No.
‡0145-5234—Horizontal
Registration No.
‡0146-5234—Angle



Fig. 771—Gate
Bronze—"Wedge Disc"
300 Pounds—500° F.
Inside Screw
Stationary Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†Sizes Made, ¼ to 3 in.
Sizes Registered,
*¾ to 2½ inches
Registration No.
‡0153-5234



Fig. 834—Gate
Bronze—"Wedge Disc"
300 Pounds—500° F.
Outside Screw and Yoke
Rising Stem
Renewable Bronze Seats
and Disc 1 in. and larger
†1 to 3 inches
Registration No.
‡0154-5234

LARGE VALVES, SCREW ENDS, IRON BODY BRONZE MOUNTED

250 POUNDS WORKING STEAM PRESSURE

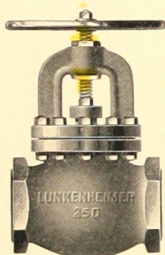


Fig. 881—Globe
Fig. 882—Angle
250 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 4 inches
Registration No. ‡0141-5234—Globe
Registration No. ‡0142-5234—Angle



Fig. 324—Swing Check
250 Pounds—450° F.
Renewable Bronze Seat and Disc
†2 to 4 inches
Registration No. ‡0436-5234

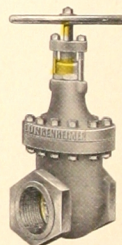


Fig. 1433—Gate
250 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats and Disc
†Sizes Made, 1½ to 4 inches
*Sizes Registered, 1½ to 2½ inches
Registration No. ‡0157-5234

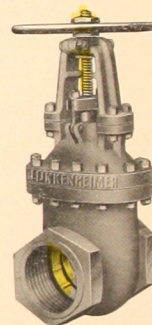


Fig. 1435—Gate
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats and Disc
†1½ to 4 inches
Registration No. ‡0158-5234

LARGE VALVES, FLANGE ENDS, IRON BODY BRONZE MOUNTED

250 POUNDS WORKING STEAM PRESSURE

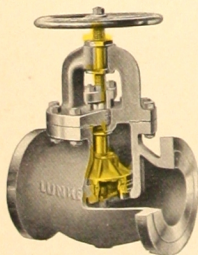


Fig. 884—Globe. 2 to 8 in.
Fig. 885—Angle. 2 to 8 in.
Fig. 326—Globe, With
Interior By-pass.

Fig. 359—Angle, With
Interior By-pass.
5 to 12 inches.
250 Pounds—450° F.
Renewable Bronze Seat
and Disc.
Registration No.
‡0141-5234—Globe
Registration No.
‡0142-5234—Angle



Fig. 323—Swing Check
250 Pounds—450° F.
Renewable Bronze Seat
and Disc
2 to 8 inches
Registration No. ‡0436-5234

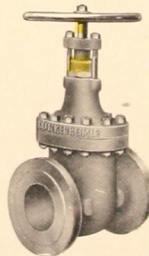


Fig. 1434—Gate
250 Pounds—450° F.
Inside Screw
Stationary Bronze Stem
Renewable Bronze Seats
and Disc. Sizes Made, 1½
to 12 inches. Sizes Registered,
*1½ to 2½ inches.
Registration No. ‡0157-5234

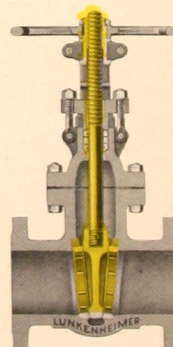


Fig. 1436—Gate
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats
and Disc. 1½ to 18 inches
Registration No. ‡0158-5234

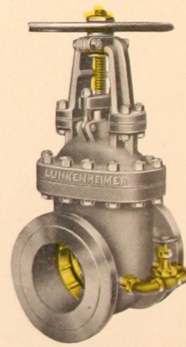


Fig. 1438—Gate With By-pass
250 Pounds—450° F.
Outside Screw and Yoke
Rising Bronze Stem
Renewable Bronze Seats
and Disc. 6 to 18 inches
Registration No. ‡0158-5234

STANDARD FACE TO FACE DIMENSIONS

*Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.
†Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4½" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER STEEL VALVES

SMALL VALVES, SCREW ENDS, STEEL, MONEL MOUNTED

400 POUNDS WORKING STEAM PRESSURE

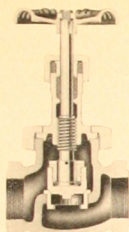


Fig. 1451—Globe
Fig. 1452—Angle
"Steel"

400 Pounds—750° F.
Bonnet, Union Bonnet Ring Monel,
Stem Rolled Monel, Renewable
Seat and Disc Forged Monel
Sizes Made, 1/4 to 2 inches
Sizes Registered, 1/2 to 2 inches
Registration No. #0432-5234 Globe
Registration No. #0433-5234 Angle

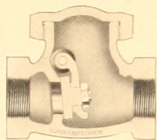


Fig. 1514
All Monel
400 Pounds—750° F.
Screw Cap
1/4 to 1 1/4 inches.

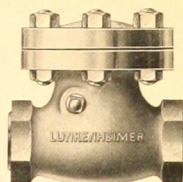


Fig. 1598
Steel Monel Mounted
400 Pounds—750° F.
Bolted Cap
1 1/2 and 2 inches.

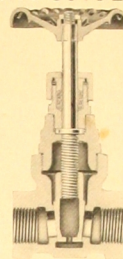


Fig. 1586
Monel Gate Valves
400 Pounds—750° F.
Union Bonnet
Inside Screw
1/4 to 1 inches.

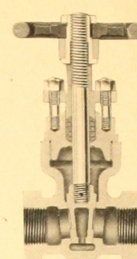


Fig. 1515
Monel Gate Valves
400 Pounds—750° F.
Outside Screw
and Yoke
3/4 to 2 inches.

NON-RETURN VALVES, STEEL, MONEL MOUNTED

300 POUNDS WORKING STEAM
PRESSURE

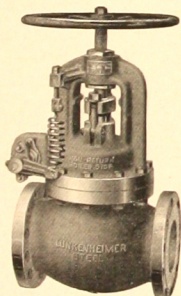


Fig. 1409—Globe—"Steel"
300 Pounds—750° F.
Renewable Seat and Disc, also Stem are made of Monel
3 to 10 inches.
Registration No. #0161-5234

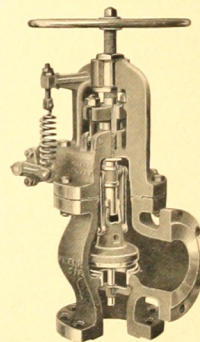


Fig. 1410—Angle—"Steel"
300 Pounds—750° F.
Renewable Seat and Disc, also Stem are made of Monel
3 to 10 inches
Registration No. #0162-5234

"Iron" Bronze Mounted Non-Return Valves
are illustrated on page nine

LUNKENHEIMER NON-RETURN VALVES HAVE NO DASHPOTS AND WILL NOT STICK, CHATTER OR SPIN.
WILL INSTANTLY CLOSE AUTOMATICALLY WHEN NECESSARY

LARGE VALVES, FLANGE ENDS, STEEL, MONEL MOUNTED

300 POUNDS WORKING STEAM PRESSURE

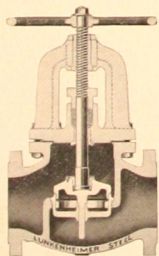


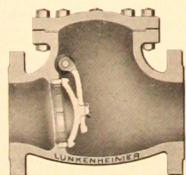
Fig. 606—Globe. 2 to 8 inches.
Registration No. #0434-5234

Fig. 607—Angle. 2 to 8 inches.
Registration No. #0435-5234

Fig. 705—Globe. With Interior
By-pass. 5 to 12 inches.

Fig. 706—Angle. With Interior
By-pass. 5 to 12 inches.

"Steel"—300 Pounds—750° F.
Renewable Seat and Disc, also
Stem are made of Monel



"Steel"—Swing Check
Fig. 1314—Bronze Mounted—500° F.
Fig. 1397—Monel Mounted—750° F.
300 Pounds
Renewable Seat and Disc
Sizes Made, 1 1/2 to 12 inches
Sizes Registered, 2 to 8 inches
Registration No. #0437-5234

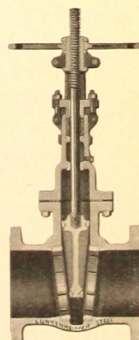


Fig. 1425—Gate
"Steel"
300 Pounds—750° F.
Outside Screw and Yoke
Rising Monel Stem
Renewable Monel Seats and Disc
Sizes Made, 1 1/2 to 16 inches
Sizes Registered, 2 to 16 inches
Registration No. #0159-5234

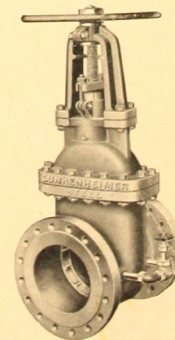


Fig. 1426—Gate With By-pass
"Steel"
300 Pounds—750° F.
Outside Screw and Yoke
Rising Monel Stem
Renewable Monel Seats and Disc
6 to 18 inches
Registration No. #0159-5234

STANDARD FACE TO FACE DIMENSIONS

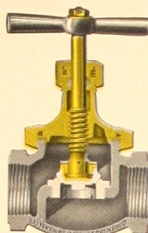
LUNKENHEIMER VALVES

WITH MONEL SEATS AND DISCS

THROTTLING TYPE.

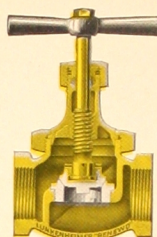
RESTRICTED SEAT OPENING

TEE HANDLE



"Fer-renewo"
Throttling Type
Fig. 1536—Globe
Fig. 1564—Angle

150 Pounds—450° F.
Sizes Made, $\frac{1}{4}$ to 2 inches
Sizes Registered, $\frac{3}{4}$ to 2 inches
Registration No. #0136-5234



Bronze—"Renewo"
Throttling Type
Fig. 1521—Globe
Fig. 1561—Angle

200 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. #0128-5234—Globe
Registration No. #0129-5234—Angle



Extra Heavy
Bronze—"Renewo"
Throttling Type
Fig. 1522—Globe
Fig. 1562—Angle

300 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. #0130-5234—Globe
Registration No. #0131-5234—Angle

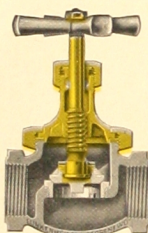
LUNKENHEIMER VALVES

WITH MONEL SEATS AND DISCS

FULL-WAY TYPE.

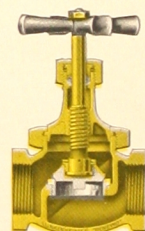
FULL AREA SEAT OPENING

CROSS-BAR HANDLE



"Fer-renewo"
Full-Way Type
Fig. 1525—Globe
Fig. 1563—Angle

150 Pounds—450° F.
Sizes Made, $\frac{1}{4}$ to 2 inches
Sizes Registered, $\frac{3}{4}$ to 2 inches
Registration No. #0136-5234



Bronze—"Renewo"
Full-Way Type
Fig. 1523—Globe
Fig. 1559—Angle

200 Pounds—500° F.
†Sizes Made, $\frac{1}{4}$ to 3 inches
*Sizes Registered, $\frac{1}{4}$ to 2½ inches
Registration No. #0128-5234—Globe
Registration No. #0129-5234—Angle



Extra Heavy
Bronze—"Renewo"
Full-Way Type
Fig. 1524—Globe
Fig. 1560—Angle

300 Pounds—500° F.
 $\frac{1}{4}$ to 2 inches
Registration No. #0130-5234—Globe
Registration No. #0131-5234—Angle

LUNKENHEIMER HIGH DUTY VALVES

FOR HYDRAULIC, AIR, GAS, AND OIL SERVICE

2000 POUNDS WORKING PRESSURE IF SHOCK IS LIKELY TO OCCUR. 4000 POUNDS NON-SHOCK PRESSURE



Fig. 720—Globe
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 721—Angle
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 815—Horizontal Check
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches



Fig. 816—Angle Check
Renewable Bronze Disc
 $\frac{1}{4}$ to 2 inches

* Where Interprovincial Boiler Code applies to installation, Valves 3" and larger must be Outside Screw and Yoke type.

† Interprovincial Boiler Code prescribes that all Valves 3" and larger on steam mains carrying more than 120 lb. pressure and all Valves 4½" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

LUNKENHEIMER "SA" VALVES

"SULPHURIC ACID" SERVICE

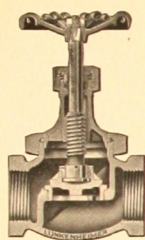


Fig. 1398—Globe
 $\frac{1}{2}$ to 2 inches

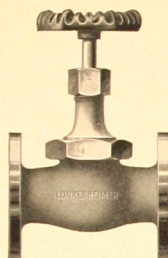


Fig. 1399—Globe
 $1\frac{1}{2}$ to 3 inches

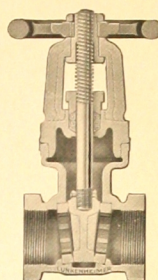


Fig. 1411—Gate
 $\frac{3}{4}$ to 2 inches

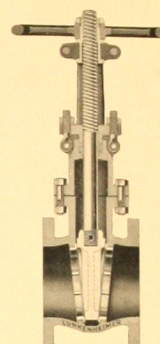


Fig. 1406—Gate
2 to 8 inches

THESE VALVES ARE REGULARLY MADE FOR 50 POUNDS WORKING PRESSURE. VALVES FOR 200 POUNDS WORKING PRESSURE ARE PROCURABLE ON SPECIAL ORDER

LUNKENHEIMER NEEDLE VALVES

BRONZE OR STEEL STEM. VALVES WITH STEEL STEM HAVE SMALLER SEAT OPENING, PROVIDING FINER REGULATION

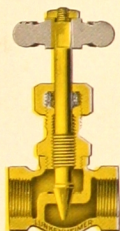


Fig. 906—Globe
200 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 907—Angle
200 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 909—Globe
With Union
200 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 910—Angle
With Union
200 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch

FOR $\frac{3}{4}$ AND 1 INCH SIZES REFER TO THE "GLAND TYPE" ILLUSTRATED BELOW.

LUNKENHEIMER "GLAND TYPE" NEEDLE VALVES

BRONZE STEM ONLY

ALL 1-INCH NEEDLE VALVES HAVE UNION BONNET CONSTRUCTION

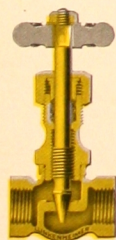


Fig. 1205—Globe
200 Pounds
 $\frac{1}{4}$ to 1 inch



Fig. 1206—Angle
200 Pounds
 $\frac{1}{4}$ to 1 inch



Fig. 1208—Globe
With Union
200 Pounds
 $\frac{1}{4}$ to 1 inch



Fig. 1209—Angle
With Union
200 Pounds
 $\frac{1}{4}$ to 1 inch



Fig. 1566—Angle
Fig. 1565—Globe
Fig. 1568—Angle with Union
Fig. 1567—Globe with Union
200 Pounds
 $\frac{1}{4}$ and $\frac{3}{8}$ inch

The $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ -in. sizes have been approved by the Underwriters' Laboratories for control of hazardous liquids. The Underwriters' Laboratories prescribe 50 pounds per square inch as the maximum pressure for hazardous liquid equipment.

WATER COLUMN

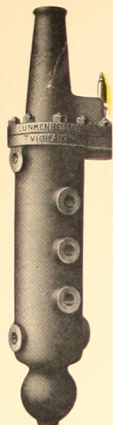


Fig. 919
"Vigilant"

250 Pounds
12 to 24 inches
center to
center dimensions for water
gauge connections.

The No. 5-6 Column has tapped openings for steam connection at top and back, therefore may be used on either Water Tube or Horizontal Tubular Boilers, steam connection being made at either point, plugging unused opening with pipe plug.

Chain Operated Type

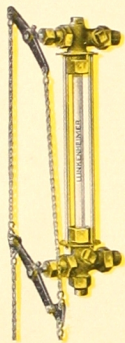


Fig. 1334—Non-Automatic
Fig. 1335—Automatic

300 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0172-5234

WATER GAUGES

Hand Wheel Type

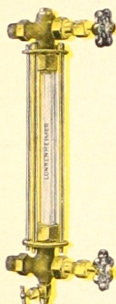


Fig. 460—Non-Automatic
200 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0171-5234

Fig. 1332—Non-Automatic

Fig. 1333—Automatic

300 Pounds, $\frac{1}{2}$ and $\frac{3}{4}$ inch
Registration No. ϕ 0172-5234

APPROVED FUSIBLE PLUGS

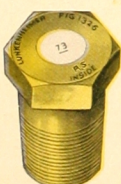


Fig. 1326

"Regular Standard"
Large Core
Inside Pattern
 $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches
Reg. No. ϕ 0441-5234



Fig. 1327

"Regular Standard"
Large Core
Outside Pattern
 $\frac{3}{4}$ to 1 $\frac{1}{2}$ inches
Reg. No. ϕ 0441-5234

BRONZE UNIONS

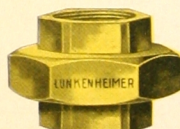


Fig. 303—200 Pounds
Fig. 302—300 Pounds
 $\frac{1}{8}$ to 2 inches

POP SAFETY VALVES

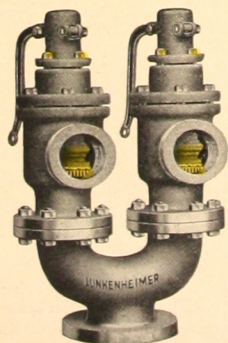


Fig. 752—"Twin"

"Iron" with Bronze or Nickel Seat
10 to 250 Pounds—450° F.
Y-base inlet—3 to 6 inches
Registration No. ϕ 0170-5234

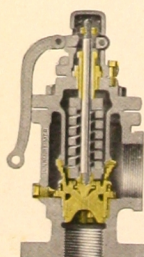


Fig. 630—"Iron" With Bronze or
Nickel Seats. Encased Spring.
Combination Flange and Screw
Inlet Base

Outlet size larger than Inlet
10 to 250 Pounds 450° F.
2 to 4 $\frac{1}{2}$ inches
Registration No. ϕ 0170-5234

POP SAFETY VALVES

BRONZE POP SAFETY VALVES FOR STEAM



Fig. 629
Side Outlet
10 to 250 lbs.
500° F.



Fig. 433
Top Outlet
10 to 250 lbs.
500° F.

1 to 3 inches
Registration No. ϕ 0169-5234
Above Pop valves for steam
service.
Fig. 1226 and 1227, Air Pop
Valves, illustrated on pages 11
and 12.

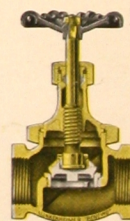


Fig. 554—"Renewo"—500° F.

Fig. 73—Globe $\frac{1}{2}$ 200 lbs.
Fig. 72—Angle $\frac{1}{4}$ to $\frac{3}{4}$ "
Registration No.
 ϕ 0128-5234—Globe
Registration No.
 ϕ 0129-5234—Angle

Fig. 16—Globe $\frac{1}{2}$ 300 lbs.
Fig. 17—Angle $\frac{1}{4}$ to $\frac{3}{4}$ "
Registration No.
 ϕ 0130-5234—Globe
Registration No.
 ϕ 0131-5234—Angle
"Steel"—750° F.
Fig. 1451—Globe $\frac{1}{2}$ 400 lbs.
Fig. 1452—Angle $\frac{1}{4}$ to $\frac{3}{4}$ "
Registration No.
 ϕ 0432-5234—Globe
Registration No.
 ϕ 0433-5234—Angle

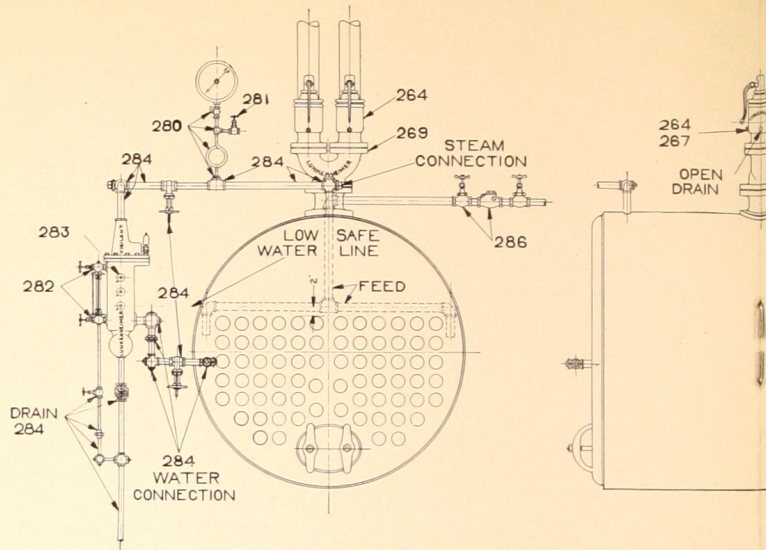
FEED LINE VALVES



Bronze—"Swing Check"
500° F.
Fig. 554—200 Pounds
Fig. 624—300 Pounds
 $\frac{1}{4}$ to 3 inches
Registration No.
 ϕ 0147-5234—200 Pounds
Registration No.
 ϕ 0148-5234—300 Pounds

"Steel"—"Lift Check"
Monel Mounted 750° F.
Fig. 1419—400 Pounds
 $\frac{1}{2}$ to 2 inches

"Steel"—"Swing Check"
Fig. 1314—Bronze Mtd.
300 Pounds—500° F.
Fig. 1397—Monel Mtd.
300 Pounds—750° F.
2 to 8 inches
Registration No.
 ϕ 0437-5234



Application of Lunkenheimer Boilers conforming to Canadian Interprovincial Regulations

Canadian Interprovincial Regulations		Lunkenheimer Products			Canadian Interprovincial Regulations	
Para-graph	Regulations	Description	Figure Numbers Up to 175 to 250 Lbs. W.S.P. W.S.P.		Para-graph	Regulations
262	ALL FITTINGS carrying steam pressure shall be as follows: Up to 125-Lbs.—Standard. 125 Lbs. to 175 Lbs.—Medium or Heavy 175 Lbs. to 250 Lbs.—Extra Heavy All valves immediately connected to the boilers, 2" and larger, on steam mains carrying over 120 Lbs., 3" and larger, and on steam mains carrying over 30 Lbs., 4½" and larger, shall have flanged connections.				282	Every boiler shall have at least one safety valve not less than six inches in diameter. Where the top connection from the floor water gauge with rods or chains is operated from the floor, drain cocks or valves for must be of the same size as those for steam connections.
264	Each boiler shall be provided with a pop safety valve or valves of approved design, etc.	Bronze Pop Safety Valves	629 433	629 433	283	Every boiler shall have two safety valves exceeding 30 inches in diameter. Pipe through lower cock to be mounted as the bottom of the glass at least 2 inches apart.
267	The diameter of a safety valve used on a boiler shall be not less than one inch on boilers over 2 Horse Power.	I.B.B.M. Pop Safety Valves	630 434	630 434		
269	When a safety valve larger than 3½" is required two or more valves shall be used. Such valves may be as large as 4½".	"Twin" Pop Safety Valves	752	752	284	Stop valves between columns of a straightway type valve. Drain pipe and valve at bottom of at least half the diameter boiler, and located at a distance from the floor, the end in sight.
276	Every boiler shall be equipped with at least one fusible plug of approved design. All fusible plugs must be renewed at least once a year.	Fusible Plugs	1326 1327	1326 1327	286	Each boiler shall have a feed check valve also a stop check valve and the boiler valves are used on feed line under the disc.
280	All steam gauges shall be connected directly to the boiler. A cut off cock with lever handle and a syphon must be used.	Bronze Lever Handle Steam Gauge Cock	977 978 979	977 978 979		
281	A ¼" pipe size connection must be provided for inspection test gauge.	Bronze Regrinding Globe Valve	407	409		

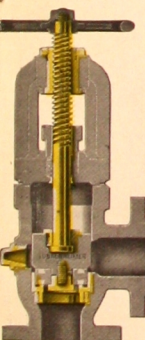
Boiler Mountings Regulations

Regulations	Lunkenheimer Products			Canadian Interprovincial Regulations		Lunkenheimer Products		
	Description	Figure Numbers Up to 175 Lbs. W.S.P.	175 to 250 Lbs. W.S.P.	Para- graph	Regulations	Description	Figure Numbers Up to 175 Lbs. W.S.P.	175 to 250 Lbs. W.S.P.
At least one water gauge in length above seven feet gauges must be fitted so that they may be read.	Extra Heavy Regrinding Water Gauge Plain Water Gauge	460	1332 1335	287	Each main or auxiliary steam outlet from a boiler (excepting at safety valve connections) shall be fitted with a stop valve immediately at the boiler, in addition to any other stop valve which may be required on main or branch pipe lines. When the working pressure carried exceeds one hundred pounds per square inch and the steam pipe exceeds two and one-half inches in diameter, such stop valve shall be of the outside screw and yoke type. In cases where two or more boilers carrying over 100 pounds per square inch pressure connected to a common main, each boiler shall be equipped with an automatic Non-Return Valve of approved design in addition to the boiler stop valve.	I.B.B.M. Globe or Angle Stop Valve	1126 1129 1127 1130	882 885
For glass gauge fittings of size and substantial mounting and water connections.	Bronze "Renewo" Globe Valve	73	17			I.B.B.M. Gate Stop Valves	642 643	1435 1436
Two (and in boilers exceeding diameter, three) Gauge connections. The connections in the same plane as the glass and the others at measured vertically.	Regrinding Gauge Cock	1176	1176			Globe or Angle Non-Return Valve	1407 1408	1407 1408
Each main and boiler must be with O.S. & Y. bottom of column shall be of connections to a convenient distance of these pipes to be	"Renewo" Gauge Cock	1264	1264			Extra Heavy Bronze Straightway or "Y" Blow-off Valve	183 184	183 184
	Stop Valves—Bronze O.S. & Y. Wedge Disc Gate	831	834	291	Each boiler must be provided with a substantial blow-off pipe and valve or packed cock. The valve or cock shall be extra heavy, of straightway, "Y" or other approved and registered design, the minimum diameter being one inch and maximum two and a half inches. Globe or angle globe valves shall not be used for this purpose. It is recommended that two valves, or a valve and a packed cock be provided at the blow-off outlet of each boiler.	Extra Heavy Iron Body Straightway or "Y" Blow-off Valve	1351 1352	1351 1352
	Drain Valve—Bronze "Renewo" Globe	73	17			"Duro" Blow-off Valve, Sc. Ends	896 897	896 897
	Valve "B" Bronze "Renewo" Globe	73	17			"Duro" Blow-off Valve, Flg. Ends	837 837	837 837
	Valve "C" Bronze Regrinding Swing Check	554	624			Gate Valve to use in combination with "Duro" Blow-off Valve, Flg. End	1436	1436

BLOW-OFF VALVES

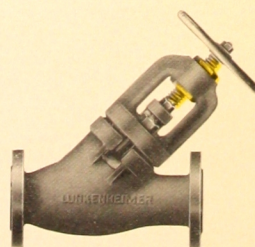
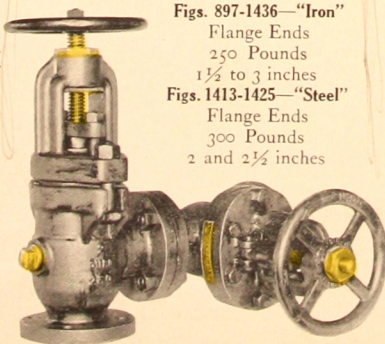
DURO-GATE BLOW-OFF COMBINATION

Figs. 897-1436—"Iron"
Flange Ends
250 Pounds
1½ to 3 inches
Figs. 1413-1425—"Steel"
Flange Ends
300 Pounds
2 and 2½ inches



Iron—"Duro"
With Bronze Seat and Alloy Faced Disc or Monel Seat and Disc
Fig. 896—Screw Ends
Fig. 897—Flange Ends
250 Pounds
1½ to 2½ inches
Registration No. 0168-5234

Steel "Duro" Monel Mounted
Fig. 1413—Flange Ends
400 Pounds
2 and 2½ inches



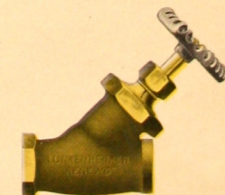
Iron—"Straightway"
With Bronze Seat and Alloy Faced Disc

Fig. 1352—Flange Ends, 250 lbs. 1½" to 2½"
Fig. 1351—Screw Ends, 250 lbs. 2" to 2½"
Fig. 305—Flange Ends, 125 lbs. 2" and 2½"
Fig. 935—Screw Ends, 125 lbs. 2" and 2½"

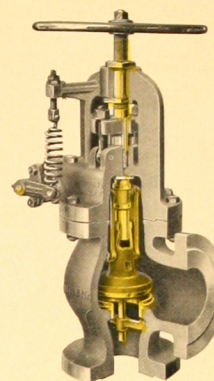
Bronze—"Straightway" Nickel Seat and Disc

Fig. 184—Flange Ends, 250 lbs. 1" to 2½"
Fig. 183—Screw Ends, 300 lbs. 1" to 2½"
Fig. 180—Screw Ends, 200 lbs. 1" to 2½"

Fig. 655
Bronze Funnel
¼" to 2"



SAFETY NON-RETURN BOILER STOP VALVES



"Iron"—Bronze Mounted
Fig. 1408—Angle
Fig. 1407—Globe
250 Pounds
450° F
3 to 10 inches
Registration No. 0163-5234
—Globe
Registration No. 0164-5234
—Angle

"Steel"—Monel Mounted
Fig. 1410—Angle
Fig. 1409—Globe
Illustrated on page 5.

LUNKENHEIMER NON-RETURN VALVES HAVE NO DASHPOTS AND WILL NOT STICK, CHATTER OR SPIN. WILL INSTANTLY CLOSE AUTOMATICALLY WHEN NECESSARY.

GATE VALVES

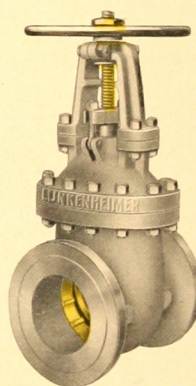


Fig. 643—"Heavy"
Iron Bronze Mounted
175 Pounds
450° F
2 to 16 inches
Registration No. 0156-5234

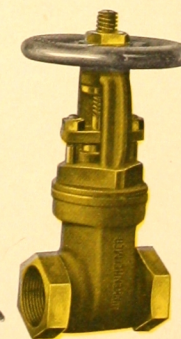
Fig. 1436—"Extra Heavy" Iron Bronze Mounted
250 Pounds
450° F
2 to 16 inches
Registration No. 0158-5234

Fig. 1425—"Steel" Monel Mounted
300 Pounds
750° F
2 to 16 inches
Registration No. 0159-5234

Bronze Gate Outside Screw and Yoke

Fig. 831
200 Pounds
¾ to 3 inches
Registration No. 0152-5234
Fig. 834
300 Pounds
1 to 3 inches
Registration No. 0154-5234

This type of valve is prescribed when used between water column and boiler. The rising stem acts as an indicator.



LUNKENHEIMER "ALL-IRON" VALVES

FOR HANDLING SOLUTIONS WHICH ATTACK BRONZE BUT NOT IRON
SMALL VALVES, SCREW ENDS



Fig. 1113—Globe
Fig. 1114—Angle
"All-Iron"
150 Pounds—450° F.
1/4 to 2 inches



Fig. 1116—Horizontal Check
"All-Iron"
150 Pounds—450° F.
1/4 to 2 inches

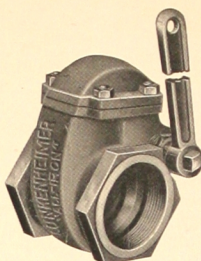
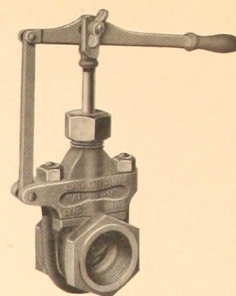


Fig. 322—Quick Operating
"All-Iron"
75 Pounds—450° F.
3/4 to 8 inches



Fig. 319—Gate "Clip"
"All-Iron"
100 Pounds—450° F.
1/2 to 3 inches



Gate, "Clip" Quick Operating
Fig. 321—Screw Ends
Fig. 320—Flange Ends
"All-Iron"
50 Pounds—450° F.
1/2 to 3 inches

LARGE "ALL-IRON" VALVES, SCREW ENDS

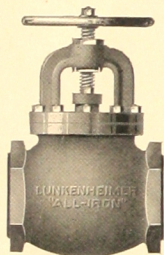


Fig. 218—Globe
Fig. 219—Angle
"All-Iron"
125 Pounds—450° F.
2 to 6 inches



Fig. 1104—Horizontal Check
"All-Iron"
125 Pounds—450° F.
2 to 6 inches

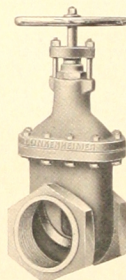


Fig. 1575—Gate
"All-Iron"
125 Pounds—450° F.
Non-Rising Steel Stem
2 to 6 inches

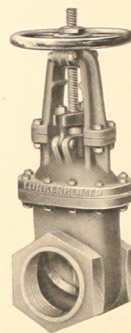


Fig. 1577—Gate
"All-Iron"
125 Pounds—450° F.
Rising Steel Stem
Outside Screw and Yoke
2 to 6 inches

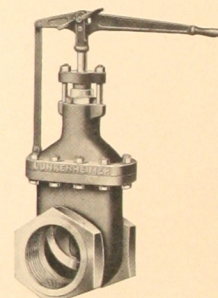


Fig. 1602—Gate
Quick Operating
"All-Iron"
2 to 3 inches—125 lbs.
3 1/2, 4, 5 and 6 inches—100 lbs.

LARGE "ALL-IRON" VALVES, FLANGE ENDS



Fig. 618—Globe
Fig. 619—Angle
"All-Iron"
125 Pounds—450° F.
2 to 12 inches

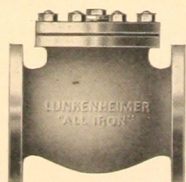


Fig. 1106—Horizontal Check
"All-Iron"
125 Pounds—450° F.
2 to 12 inches

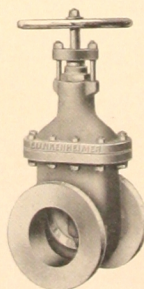


Fig. 1576—Gate
"All-Iron"
125 Pounds—450° F.
Non-Rising Steel Stem
2 to 6 inches

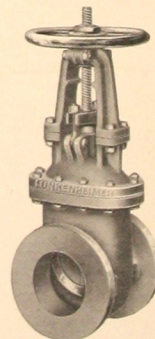


Fig. 1578—Gate
"All-Iron"
125 Pounds—450° F.
Rising Steel Stem
Outside Screw and Yoke
2 to 8 inches

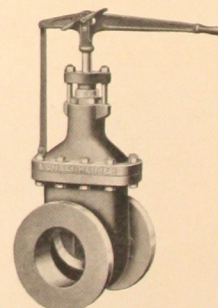


Fig. 1603—Gate
Quick Operating
"All-Iron"
2 to 3 inches—125 lbs.
3 1/2, 4, 5 and 6 inches—100 lbs.

STANDARD FACE TO FACE DIMENSIONS

LUNKENHEIMER AIR DEVICES



Fig. 96
Air Nozzle
With Push Button
Hose End
 $\frac{3}{8}$ and $\frac{1}{2}$ inch



Fig. 5
Air Nozzle
With Lever Hose End
 $\frac{3}{8}$ and $\frac{1}{2}$ inch



Fig. 1226—Top Outlet
Fig. 1227—Side Outlet
Pop Safety Valves for Air Service
10 to 250 Pounds
Sizes Made $\frac{3}{8}$ to 3 inches
Sizes Registered 1 to 3 inches
Registration No. #0169-5234

Use Side Outlet Valves in Alberta. Top Outlet not permitted.
Pop valves for steam are illustrated on page 8.

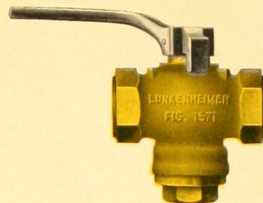


Fig. 1571—Female Ends
"Air-Liquid" Cock
With Stop Lugs
 $\frac{1}{2}$ to 1 inch

If male ends are desired insert extra heavy nipples in Fig. 1571



Fig. 1371
Hose Connection
 $\frac{1}{8} \times \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{2}$
 $\frac{1}{4} \times \frac{3}{8}$ $\frac{3}{8} \times \frac{3}{8}$
 $\frac{3}{8} \times \frac{1}{2}$



Fig. 26
Air Nozzle
With Push Button
Female Pipe Threaded End
 $\frac{1}{8}$ — $\frac{1}{4}$ — $\frac{3}{8}$ inch



Fig. 32—Air Nozzle
With Lever
Female Pipe Threaded End
 $\frac{1}{8}$ — $\frac{1}{4}$ — $\frac{3}{8}$ inch

LUNKENHEIMER QUICK OPERATING VALVES

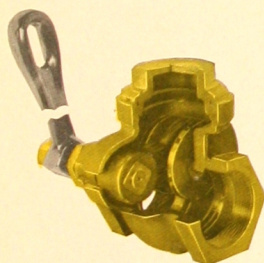


Fig. 431
Bronze—"Lever" Gate
175 Pounds
 $\frac{1}{2}$ to 2 $\frac{1}{2}$ inches

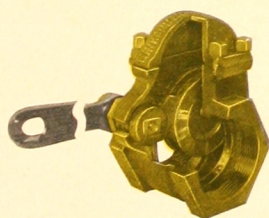


Fig. 430
Bronze—"Handy" Gate
75 Pounds
 $\frac{1}{2}$ to 4 inches

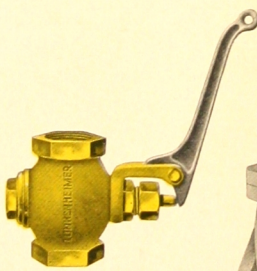


Fig. 635
Bronze—"Regrinding" Lever
Operated Valve
With Stuffing Box
150 Pounds
 $\frac{1}{4}$ to 2 inches

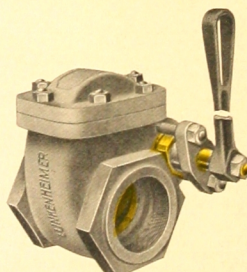


Fig. 432
"Lever" Gate
Iron, Bronze Mounted
175 pounds, 2 to 3 inches
125 " 3 $\frac{1}{2}$ and 4 "
100 " 5 " 6 "

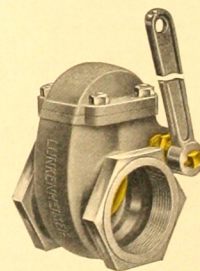


Fig. 628
"Handy" Gate
Iron, Bronze Mounted
75 pounds
2 to 8 inches

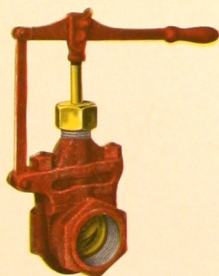


Fig. 639—Gate "Clip"
Iron, Bronze Mounted
50 Pounds
 $\frac{1}{2}$ to 3 inches

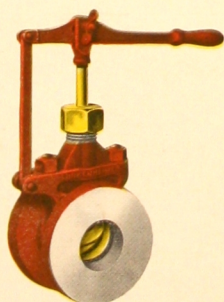


Fig. 640—Gate "Clip"
Iron, Bronze Mounted
50 Pounds
1 to 3 inches

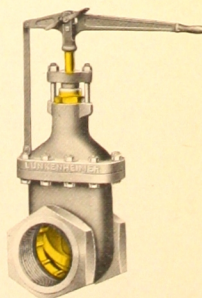


Fig. 1579—Gate
Iron, Bronze Mounted
2 and 3 inches 125 lbs.
3 $\frac{1}{2}$, 4, 5 " 6 " 100 "

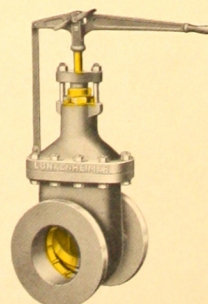


Fig. 1580—Gate
Iron, Bronze Mounted
2 and 3 inches 125 lbs.
3 $\frac{1}{2}$, 4, 5 " 6 " 100 "
8 " 75 "
10 and 12 " 50 "

STANDARD FACE TO FACE
DIMENSIONS

LUNKENHEIMER LIQUID LEVEL GAUGES

TANK, RESERVOIR AND OTHER SIMILAR SERVICE

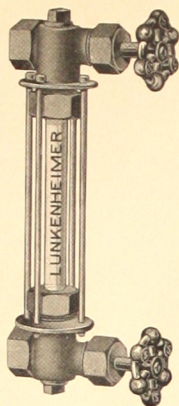


Fig. 1183—"All Iron"
"Automatic" Liquid Level Gauge
200 Pounds—450° F.
Regularly made in $\frac{3}{4}$ inch female
only, but can be bushed to
 $\frac{3}{8}$ or $\frac{1}{2}$ inch.
For male ends use steel nipples—
Fig. 1237

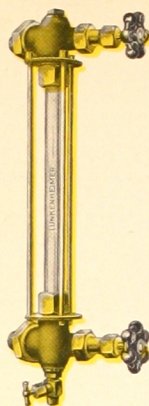
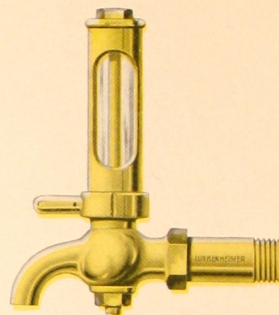


Fig. 589—"Bronze"
"Automatic" Liquid Level Gauge
200 Pounds—500° F.
 $\frac{1}{2}$ and $\frac{3}{4}$ inch



Fig. 528—Plain
Fig. 529—With Drain Cock
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



With Revolvable Shield
Fig. 966—"Triplex"
 $\frac{1}{8}$ to $\frac{1}{2}$ inch

(Water Gauges for Boiler Service are illustrated on page eight)

LUNKENHEIMER RELIEF VALVES

FOR WATER OR OTHER LIQUID SERVICE



Fig. 791—Male Inlet
Fig. 288—Female Inlet
Bronze Side Outlet "Liquid" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 996—Male Inlet
Fig. 997—Female Inlet
Rough Bronze Side Outlet "Liquid"
Relief Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches

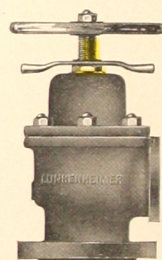


Fig. 1359—Screw Outlet
Fig. 1144—Flange Outlet
Combination Flange and Female Screw
Inlet
Iron Bronze Mounted "Liquid"
Relief Valve
10 to 250 Pounds—450° F.
2 to 6 inches

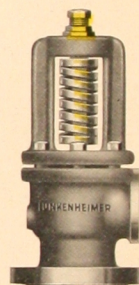


Fig. 157
Combination Flange and Female
Screw Inlet, Screw Outlet,
Outside Spring Relief Valve

FOR AIR SERVICE

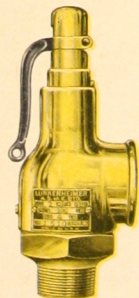


Fig. 1227—Side Outlet
Fig. 1226—Top Outlet
Bronze Pop Safety Valves for Air
Service
10 to 250 Pounds. Sizes Made, $\frac{3}{8}$ to 3
inches. Sizes Registered, 1 to 3 inches.
Registration No. 40169-5234
Use Side Outlet Valves in Alberta. Top
Outlet not permitted.



Fig. 656—Male Inlet
Fig. 287—Female Inlet
Bronze Top Outlet "Steam" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches

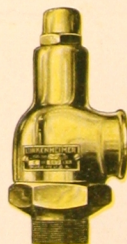


Fig. 658—Male Inlet
Fig. 286—Female Inlet
Bronze Side Outlet "Steam" Relief
Valve
10 to 250 Pounds—500° F.
 $\frac{3}{8}$ to 3 inches



Fig. 382—With Regulating Wheel
Fig. 202—Without Regulating Wheel
Rough Bronze "Steam" Relief Valve
10 to 175 Pounds
 $\frac{3}{8}$ to 2 inches

(Pop Valves for Steam are illustrated on page 8.)

BRONZE RELIEF VALVES FOR PRESSURES HIGHER THAN 250 POUNDS ARE PROCURABLE

LUNKENHEIMER COCKS



Fig. 474
Steam Gauge Cock
Tee Handle
125 Pounds $\frac{1}{8}$ to $\frac{3}{8}$ inch



Fig. 476
Pet Cock
Tee Handle
125 Pounds $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 479
Bibb Nose Cock
Lever Handle
125 Pounds $\frac{1}{8}$ to $\frac{1}{2}$ inch



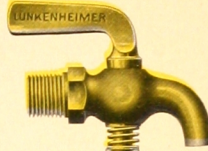
Fig. 454—Stop Cock
 $\frac{1}{8}$ to 2 inches—150 lbs.
 $2\frac{1}{2}$ to 3 inches—100 lbs.



Spring Key Cock
Fig. 1037—Lever Handle
Double Female Ends
50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Spring Key Pet Cock
Fig. 177—Tee Handle
Fig. 178—Lever Handle
Male End 50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Spring Key Bibb Nose Cock
Fig. 176—Lever Handle
Male End 50 Pounds
 $\frac{1}{8}$ to $\frac{1}{2}$ inch



Fig. 872—Stop Cock
 $\frac{1}{4}$ to 2 inches—250 lbs.

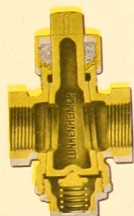


Fig. 805
Packed Plug
Cock
150 Pounds
 $\frac{1}{2}$ to 2 inches



Fig. 810
Extra Heavy
Packed Plug
Cock
250 Pounds
 $\frac{1}{2}$ to 2 inches



Fig. 817
Extra Heavy
Three-Way Packed Plug
Cock
 $\frac{1}{2}$ to $1\frac{1}{2}$ inches
250 lbs.
2 inches—200 lbs.



Fig. 278
Extra Heavy
Four-Way Packed Plug
Cock
 $\frac{1}{2}$ to $1\frac{1}{2}$ inches
250 lbs.
2 inches—200 lbs.



Fig. 573
Three-Way Stop Cock
150 Pounds
 $\frac{1}{4}$ to 2 inches



Fig. 155
Four-Way Stop Cock
150 Pounds
 $\frac{1}{4}$ to 1 inch

LUNKENHEIMER WHISTLES

"You Hear Them Everywhere"



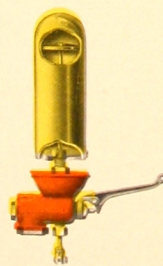
Fig. 441
Plain With
Valve
200 Pounds
Diameter of
Bells
1 to 6 inches



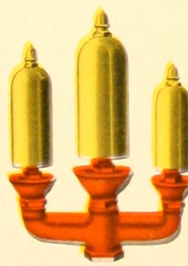
Fig. 442
Plain With-
out Valve
200 Pounds
Diameter of
Bells
1 to 8 inches



Fig. 448
Single Bell
Chime
Without
Valve
200 Pounds
Diameter of
Bells
 $1\frac{1}{2}$ to 8 in.



Fire Alarm With
Valve
Fig. 446
Iron Base
150 Pounds
Fig. 163
Bronze Base
200 Pounds
Diameter of Bells
 $3\frac{1}{2}$ —5—8 inches



Atlantic Liner Chime
Fig. 450
Iron Branch and Base
150 Pounds
No. 2—2 inch inlet
No. 3 and $3\frac{1}{2}$ —3 inch inlet

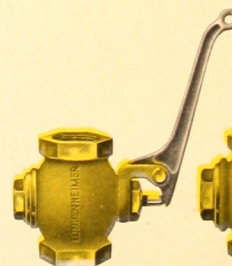


Fig. 444
Plain Whistle Valve
Without Stuffing Box
150 Pounds
 $\frac{1}{4}$ to 2 inches

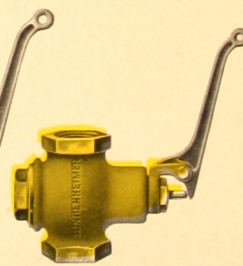


Fig. 691
Balanced Whistle Valve
200 Pounds
Fig. 234
Extra Heavy Balanced
Whistle Valve
300 Pounds
1 to 3 inches

Fig. 193
Iron Branch, Bronze Base
200 Pounds
No. 1 —1 inch inlet
No. 2 —2 inch inlet
No. 3 —3 inch inlet
No. $3\frac{1}{2}$ —3 inch inlet
Fig. 1182
Bronze Branch and Base
300 Pounds
No. 3 —3 inch inlet
No. $3\frac{1}{2}$ —3 inch inlet

LUNKENHEIMER LUBRICATORS

HYDROSTATIC DOUBLE CONNECTION

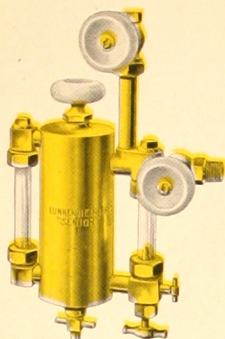


Fig. 482
"Senior" Lubricator
½ and ½ pt.—¾" Shank
¾ pt., 1 pt., 1 ½ pt., 1 qt. and ½ gal.
¾" Shank

HYDROSTATIC DROP FEED TYPE



Fig. 487
"Major" Lubricator
No. 1—¾" Shank—2 ¾ ounces
No. 2—½" Shank—3 ¾ ounces
No. 3—½" Shank—5 ounces
No. 4—½" Shank—6 ounces
No. 5—½" Shank—10 ounces
No. 6—¾" Shank—18 ounces

HYDROSTATIC SINGLE CONNECTION

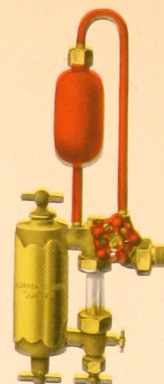


Fig. 486
"Junior" Lubricator
¾ and ½ pt.—¾" Shank
¾ and 1 pt.—½" Shank

GAS ENGINE TYPE

GENERAL TYPE



Fig. 498
Plain Engine Lubricator
No. 0—¾" Shank—1 ounce
No. 1—¾" Shank—2 ounces
No. 2—½" Shank—2 ¾ ounces
No. 3—½" Shank—3 ¾ ounces
No. 4—½" Shank—5 ounces
No. 5—½" Shank—6 ounces
No. 6—¾" Shank—10 ounces
No. 7—¾" Shank—18 ounces
No. 8—¾" Shank—28 ounces



Fig. 1301
"Paragon" Lubricator
No. 1—¾" Shank—1 ½ ounces
No. 2—¾" Shank—2 ½ ounces
No. 3—¾" Shank—4 ounces
No. 4—¾" Shank—5 ounces
No. 5—¾" Shank—10 ounces
No. 6—¾" Shank—18 ounces
No. 8—¾" Shank—32 ounces

AIR COMPRESSOR TYPES

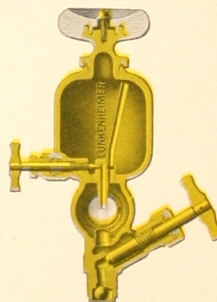


Fig. 1028
"Emblem" Lubricator
No. 1—¾" Shank—3 ounces
No. 2—½" Shank—4 ounces
No. 3—½" Shank—5 ounces
No. 4—½" Shank—6 ounces
No. 5—½" Shank—10 ounces
No. 6—¾" Shank—18 ounces



Fig. 489
"Banner" Lubricator
No. 0—¾" Shank—2 ounces
No. 1—¾" Shank—2 ¾ ounces
No. 2—½" Shank—3 ¾ ounces
No. 3—½" Shank—5 ounces
No. 4—½" Shank—6 ounces
No. 5—½" Shank—10 ounces
No. 6—¾" Shank—18 ounces

LUNKENHEIMER OIL PUMPS

MECHANICALLY OPERATED

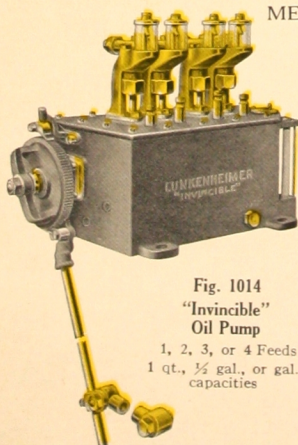


Fig. 1014
"Invincible"
Oil Pump
1, 2, 3, or 4 Feeds
1 qt., ½ gal., or gal.
capacities

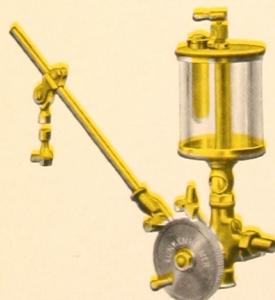


Fig. 912—Single Feed
1 pt. to 1 ½ gal.
Fig. 949—Double Feed
1 qt. to ½ gal.
"Marvel" Oil Pump
Bolt thr'd ¾"—pipe thr'd ¾"—1 pt.
Bolt thr'd ¾"—pipe thr'd ¾"—1 qt.
Bolt thr'd ¾"—pipe thr'd ¾"—½ gal.

HAND OPERATED

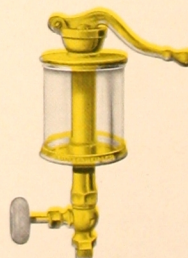


Fig. 495
"Alpha" Oil Pump
No. 3—¾"—½ pt.
No. 5—¾"—½ pt.
No. 6—½"—1 pt.
No. 8—½"—1 qt.

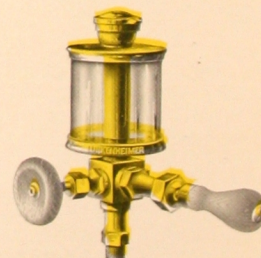


Fig. 853
"Universal" Oil Pump
No. 3A—¾"—½ pint
No. 5A—¾"—½ pint
No. 6A—½"—1 pint
No. 8A—½"—1 quart

LUNKENHEIMER OIL CUPS



Fig. 1300
"Sentinel"
Sight-Feed
Nos. 0 to 8



Fig. 1299
"Cardinal"
Nos. 0 to 8

SIGHT-FEED TYPE

Size Number	Shank Pipe Thread Inches	Capacity Oil Ounces
000	3/8	3/4
0	3/8	3/8
1	3/8	1
1 1/2	3/8	1 1/2
2	3/8	2 1/2
3	3/8	4
4	3/8	5
5	1/2	10
6	1/2	18
8	3/4	34



Fig. 1298
"Royal"
Sight-Feed
Nos. 000 to 8



Fig. 1297
"Pioneer"
Nos. 000 to 8

WITHOUT SIGHT-FEED TYPE

PLAIN SCREW LID



Fig. 540—Plain
Straight Shank
Nos. 00 to 9

Fig. 915—Plain
Elbow Shank
Nos. 00 to 4

Size Number	Shank Pipe Thread Inches	Capacity Oil Ounces
00	3/8	3/8
1	3/8	3/8
2	3/8	3/8
3	3/8	3/8
4	3/8	1 1/4
5	3/8	1 3/4
6	3/8	2 1/2
7	1/2	3 1/2
8	1/2	4 1/2
9	1/2	6 1/2

PLAIN HINGE LID



Fig. 538—Hinge Lid
Straight Shank
Nos. 1 to 7

Fig. 971—Hinge Lid
Elbow Shank
Nos. 1 to 4

BOTTLE OILERS

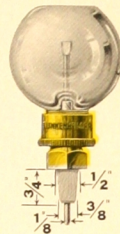


Fig. 534—Taper
Wood Plug and
Loose Wire Feed
Fig. 533—Threaded
Shank

Nos. 1 to 3
Shank of Fig. 533
threaded 3/8" on
end, 16 threads to
the inch slightly
tapered to screw
tightly into 3/8"
bolt hole.

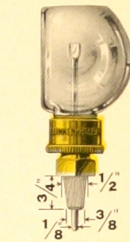


Fig. 1230—Flat
Side. Taper Wood
Plug and Loose
Wire Feed
No. 3 only

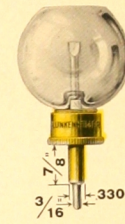


Fig. 1584—Straight
Blank Shank and
Loose Wire Feed
No. 3 only

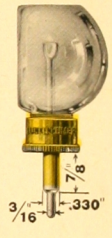


Fig. 1585—Flat
Side. Straight Blank
Shank and Loose
Wire Feed
No. 3 only

Capacities {
No. 1—1 ounce
No. 2—2 ounces
No. 3—4 ounces

LUNKENHEIMER GREASE CUPS

STEEL COMPRESSION TYPE

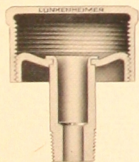


Fig. 1089
Steel—"Ferro"
Plain
Nos. 000 to 4

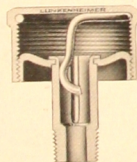


Fig. 1090
Steel—"Securo"
With Internal Lock-
ing Spring
Nos. 000 to 2



Fig. 511
Brass—"Jewel"
Nos. 00 to 4



Fig. 510
Bronze—"Ideal"
Nos. 00 to 5

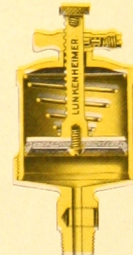


Fig. 824
Bronze—"Lion"
Nos. 00 to 5

BRONZE COMPRESSION TYPE

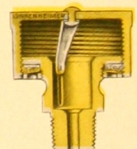


Fig. 513
Bronze—"Tiger"
Finished or Rough
With Internal Locking
Spring and Leather
Washer
Nos. 000 to 4

SCREW-FEED PLUNGER TYPE

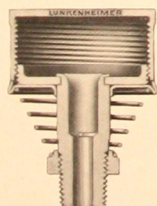


Fig. 23
Steel—"Primo"
With Ratchet Locking
Device
Nos. 000 to 2



Fig. 512
Bronze—"Marine"
Nos. 00 to 5



Fig. 1030
Bronze—"Atlas"
Nos. 00 to 5

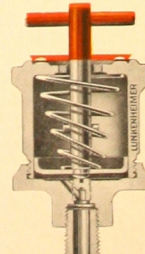


Fig. 669
Iron—"Apollo"
Automatic Type
Nos. 00 to 4



Fig. 556
Bronze—"Gem"
Plain
Finished or Rough
Nos. 000 to 4

Size Number.....	000	00	0	1	2	3	4	5
Shank Pipe Thread, inch..	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8

LUNKENHEIMER CANADIAN INTERPROVINCIAL REGISTRATION NUMBERS

The articles in the following list are registered for use on steam boilers in the Provinces of Ontario (5), Alberta (2), Saskatchewan (3), and Manitoba (4); the numerals appearing in the after part of the record numbers represent these Provinces.

Description	Figure Numbers	Sizes	Inter-provincial Record Numbers	Description	Figure Numbers	Sizes	Inter-provincial Record Numbers
Bronze Regrinding Globe Valves.....	407*, 580	1/4" to 2 1/2"	0124-5234	Bronze O. S. & Y. Wedge Disc Gate Valves.....	831*, 832	3/4" to 3"	0152-5234
Bronze Regrinding Angle and Cross Valves.....	408*, 581 582, 588*	1/4" to 2 1/2"	0125-5234	Extra Heavy Bronze Inside Screw Wedge Disc Gate Valves.....	771*, 772	3/4" to 2 1/2"	0153-5234
Extra Heavy Bronze Regrinding Globe Valves.....	409*, 410	1/4" to 2 1/2"	0126-5234	Extra Heavy Bronze O. S. & Y. Wedge Disc Gate Valves.....	834*, 835	1" to 3"	0154-5234
Extra Heavy Bronze Regrinding Angle and Cross Valves.....	411, 412 557*, 620*	1/4" to 2 1/2"	0127-5234	Standard Iron Body Bronze Mounted Inside Screw Gate Valves.....	1427*, 1428	2" and 2 1/2"	0438-5234
Bronze "Renewo" Globe Valves.....	70, 73* 1521*, 1523*	1/4" to 2 1/2"	0128-5234	Standard Iron Body Bronze Mounted O. S. & Y. Gate Valves.....	1429* 1430	2" to 24"	0439-5234
Bronze "Renewo" Angle and Cross Valves.....	68, 69 71*, 72* 1559*, 1561*	1/4" to 2 1/2"	0129-5234	Heavy Iron Body Bronze Mounted Inside Screw Gate Valves.....	602* 603	2" and 2 1/2"	0155-5234
Extra Heavy Bronze "Renewo" Globe Valves.....	16*, 19 1522*, 1524*	1/4" to 2 1/2"	0130-5234	Heavy Iron Body Bronze Mounted O. S. & Y. Gate Valves.....	642* 643	2" to 24"	0156-5234
Extra Heavy Bronze "Renewo" Angle and Cross Valves.....	17*, 18*, 20, 21 1560*, 1562*	1/4" to 2 1/2"	0131-5234	Extra Heavy Iron Body Bronze Mounted Inside Screw Gate Valves.....	1433* 1434	1 1/2" to 2 1/2"	0157-5234
Bronze O. S. & Y. Globe Valves.....	693*, 696	1 1/2" to 3"	0132-5234	Extra Heavy Iron Body Bronze Mounted O. S. & Y. Gate Valves.....	1435*, 1436	1 1/2" to 18"	0158-5234
Bronze O. S. & Y. Angle and Cross Valves.....	694*, 696* 697, 698	1 1/2" to 3"	0133-5234	"Steel" Globe Valve, Inside Screw, Union Bonnet.....	1451*, 1588	1/2" to 2"	0432-5234
Bronze O. S. & Y. "Renewo" Globe Valves.....	53*, 55	1 1/2" to 3"	0134-5234	"Steel" Angle Valve, Inside Screw, Union Bonnet.....	1452*, 1593	1/2" to 2"	0433-5234
Bronze O. S. & Y. "Renewo" Angle and Cross Valves.....	51*, 52 54*, 56	1 1/2" to 3"	0135-5234	Steel Monel Mounted Globe Valves.....	606	2" to 8"	0434-5234
Iron Body "Ferrenewo" Globe and Angle Valves.....	1021*, 1022* 1023*, 1024*	3/4" to 2"	0136-5234	Steel Monel Mounted Angle Valves.....	607	2" to 8"	0435-5234
Standard Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	1120* 1123	2" to 12"	0137-5234	Steel Monel Mounted Swing Check Valves.....	1314, 1397	2" to 8"	0437-5234
Standard Iron Body Bronze Mounted O. S. & Y. Angle and Cross Valves.....	1121*, 1122* 1124, 1125	2" to 12"	0138-5234	Steel Monel Mounted O. S. & Y. Gate Valves.....	1425, 1426	2" to 18"	0159-5234
Heavy Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	1126*, 1129	2" to 12"	0139-5234	Steel Monel Mounted Globe Pattern Safety Non-return Boiler Stop Valves.....	1409	3" to 10"	0161-5234
Heavy Iron Body Bronze Mounted O. S. & Y. Angle and Cross Valves.....	1127*, 1128* 113, 1131	2" to 12"	0140-5234	Steel Monel Mounted Angle Pattern Safety Non-return Boiler Stop Valves.....	1410	3" to 10"	0162-5234
Extra Heavy Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	326, 881* 884	2" to 12"	0141-5234	Iron Body Bronze Mounted Globe Pattern Safety Non-return Boiler Stop Valves.....	1407	3" to 10"	0163-5234
Extra Heavy Iron Body Bronze Mounted O. S. & Y. Angle and Cross Valves.....	359, 882* 883*, 885 86	2" to 12"	0142-5234	Iron Body Bronze Mounted Angle Pattern Safety Non-return Boiler Stop Valves.....	1408	3" to 10"	0164-5234
Bronze Regrinding Horizontal Check Valves.....	414*, 583	1/2" to 3"	0143-5234	Bronze Pop Safety Valves.....	245, 246† 247*, 248† 433*, 629*	1" to 3"	0169-5234
Bronze Regrinding Angle Check Valves.....	415*, 584	1/2" to 3"	0144-5234	Iron Body Bronze Mounted Pop Safety Valves.....	434*, 630 653, 792	2" to 4 1/2"	0170-5234
Extra Heavy Bronze Regrinding Horizontal Check Valves.....	413*, 558	1/4" to 3"	0145-5234	Bronze "Renewo" Straightway Blow-off Valves.....	180*	1" to 2 1/2"	0165-5234
Extra Heavy Bronze Regrinding Angle Check Valves.....	587, 621*	1/4" to 3"	0146-5234	Extra Heavy Bronze "Renewo" Straightway Blow-off Valves.....	183* 184	1" to 2 1/2"	0166-5234
Bronze Regrinding Swing Check Valves.....	554*, 596	1/4" to 3"	0147-5234	Iron Body Bronze Mounted Straightway Blow-off Valves.....	305 935*	2" and 2 1/2"	0167-5234
Extra Heavy Bronze Regrinding Swing Check Valves.....	624*, 625	1/4" to 3"	0148-5234	Extra Heavy Iron Body Bronze Mounted Straightway Blow-off Valves.....	1351*, 1352	1 1/2" to 2 1/2"	0440-5234
Standard Iron Body Bronze Mounted Swing Check Valves.....	228*, 933	2" to 8"	0149-5234	"Duro" Blow-off Valves.....	896*, 897	1 1/2" to 2 1/2"	0168-5234
Extra Heavy Iron Body Bronze Mounted Swing Check Valves.....	323, 324*	2" to 8"	0436-5234	Fusible Plugs.....	1326, 1327	3/8" to 1 1/2"	0441-5234
Bronze Double Disc Gate Valves.....	427*, 617	1/4" to 2 1/2"	0150-5234	Plain Water Gauges.....	459, 460, 970	1/2" and 3/4"	0171-5234
Bronze Inside Screw Wedge Disc Gate Valves.....	768*, 769	3/4" to 2 1/2"	0151-5234	Extra Heavy Regrinding Water Gauges.....	1332, 1333 1334, 1335 1336, 1337 1338, 1339	1/2" and 3/4"	0172-5234
				Regrinding Gauge Cocks.....	1176	1/2" and 3/4"	0173-5234
				Excelsior Gauge Cocks.....	992	1/2" and 3/4"	0174-5234
				"Renewo" Gauge Cocks.....	1264, 1308	1/2" and 3/4"	0176-5234

NOTE—* Figure numbers having an asterisk (*) affixed represent screw end valves. Code prescribes that all valves 3" and larger on steam mains carrying more than 120 lb. pressure and all valves 4 1/2" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.
† Top Outlet Valves Not Allowed in Alberta. Allowed Only on Traction Boilers in Saskatchewan. Use Side Outlet Valves, Fig. 629 and Fig. 1227.
‡ Top Outlet Pop Safety Valves for Air Service Not Allowed in Alberta.

LUNKENHEIMER BRITISH COLUMBIA REGISTRATION NUMBERS

At the time of the issuance of this booklet, British Columbia, Quebec and Nova Scotia had not officially adopted the Interprovincial Code. British Columbia is still operating under its own regulations.

Description	Figure Numbers	Sizes	British Columbia Record Numbers	Description	Figure Numbers	Sizes	British Columbia Record Numbers
Standard Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	1120* 1123	2" to 12"	2548	Bronze Pop Safety Valves.....	245 246 247* 248* 433* 629*	1" and 1 1/2" 3/4" 1 1/2" 1 1/2" 1 1/2" 2"	824 853 864 865 896 866
Standard Iron Body Bronze Mounted O. S. & Y. Angle Valves.....	1121* 1124	2" to 12"	2549	Iron Body Bronze Mounted Pop Safety Valves.....	245 246 434* 630	2" 2 1/2" 2" 2 1/2"	878 879 897 879
Heavy Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	1126* 1129	2" to 12"	2550	Plain Pattern Iron Body Bronze Mounted Pop Safety Valves.....	750* 751	2" 2 1/2" 3 1/2" 4" 4 1/2"	814 813 812 791 792 783
Heavy Iron Body Bronze Mounted O. S. & Y. Angle Valves.....	1127* 1130	2" to 12"	2551	Bronze "Renewo" Straightway Blow-off Valves.....	180* 181	1" 1 1/4" 1 1/2" 2"	2554 2555 2556 2557
Extra Heavy Iron Body Bronze Mounted O. S. & Y. Globe Valves.....	326 881* 884	2" to 12"	2552	"Duro" Blow-off Valves.....	896*	1 1/2" 2"	2345 2346
Extra Heavy Iron Body Bronze Mounted O. S. & Y. Angle Valves.....	359 882* 885	2" to 12"	2553		897	1 1/2" 2" 2 1/2"	2345 2346 3060
Iron Body Bronze Mounted, Angle Pattern Safety Non-return Boiler Stop Valves.....	1408	3" to 10"	2391				
Steel Monel Mounted Globe Pattern Safety Non-return Boiler Stop Valves.....	1409	3" to 10"	2509				
Steel Monel Mounted Angle Pattern Safety Non-return Boiler Stop Valves.....	1410	3" to 10"	2510				

NOTE— Figure numbers having an asterisk (*) affixed represent screw end valves. Code prescribes that all valves 3" and larger on steam mains carrying more than 120 lb. pressure and all valves 4 1/2" and larger on steam mains carrying more than 30 lb. pressure shall have flanged connections.

CANADIAN MARINE

The articles in the following list have been approved for use on boilers of steamships which come under the jurisdiction of the Canadian Department of Marine and Fisheries, Board of Steamship Inspection.

Description	Figure Numbers	Sizes	Description	Figure Numbers	Sizes
Bronze Regrinding Globe, Angle and Cross Valves, Screw Ends.....	407, 408 580	1/4" to 4"	Standard Iron Body Bronze Mounted O. S. & Y. Globe, Angle and Cross Valves.....	1120, 1121 1123 1124, 1125	2" to 6"
Bronze Regrinding Globe and Angle Valves, Flange Ends.....	580, 581	3/8" to 4"	Heavy Iron Body Bronze Mounted O. S. & Y. Globe and Angle Valves.....	1126, 1127 1129, 1130	2" to 6"
Extra Heavy Bronze Regrinding Globe, Angle and Cross Valves, Screw Ends.....	409, 557 620	1/4" to 4"	Extra Heavy Iron Body Bronze Mounted O. S. & Y. Globe and Angle Valves.....	881, 882 884, 885 326, 359	2" to 4" 2" to 6" 3 1/2" to 6"
Extra Heavy Bronze Regrinding Globe and Angle Valves, Flange Ends.....	410, 411	3/8" to 4"			

NOTE—Inside screw valves not acceptable for boiler mountings in sizes 1 1/2" and larger, but approved for other purposes.
NOTE—Cast iron valves are approved for saturated steam only at temperatures not exceeding 425° F. Valves must have solid discs—discs with separate faces are not approved.